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Message Text

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ACTION NASA-04

INFO OCT-01 EUR-25 ADP-00 SCI-06 PM-07 CIAE-00 INR-10

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FOR NASA WASH. D. C. FOR R. R. LORD (CODE MF) FROM HAMON

E. O. 11652: N/ A
TAGS: TSPA
SUBJECT: NASA SUMMARY OF MAJOR POINTS ON CONTRACTORS JUNE 14, 15
PRESENTATIONS

1. BOTH CONTRACTORS STATE THEY CAN PROVIDE A SPACELAB FOR 175 MAU MEETING IN GENERAL THE ESTEC SPECIFIED USER REQUIREMENTS. CRAFT QUESTIONS WHETHER ERNO HAS DEMONSTRATED CAPABILITY TO DO SO.

2. NO COSTING DETAILS PRESENTED OR PRESENTLY AVAILABLE.

3. NASA SHOULD BE AWARE OF TENDENCY TO PUSH COSTS FROM DEVELOPMENT
PROGRAM ONTO OPERATOR OR USER. FOR INSTANCE:

A) NASA TO PROVIDE ESRO ORBITER SIMULATOR.

B) PLAN TOOLING SO THAT ANY HARD TOOLING REQUIRED FOR A PRODUCTION RUN IS CHARGEABLE PRODUCTION UNITS.

C) ERNO NOT FURNISHING SOME COSTLY COMMON P/1 SUPPORT EQUIPMENT.

D) MBB INTERFACE UNIT FOR PALLET ONLY MISSION IN BASELINE COST BUT SYSTEMS FOR THE UNIT MUST BE STRIPPED FROM MODULE AND INSTALLED. (INCREASES OPERATIONS COST).
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E) MBB SUSTANINING ENGINEERING PLAN REQUIRES TRAINING OF U. S. PERSONNEL IN GERMANY WITH ASSOCIATED COSTS TO U. S.

F) ERNO RECOMMENDED CONCEPT DOES NOT INCLUDE ANY TESTING OF SHORT PRESSURIZED MODULE CONFIGURATION IF NASA WANTS TO UTILIZE THIS CONFIGURATION ANY REQUIRED TESTING WILL REQUIRE ADDITIONAL ESRO OR NASA FUNDING.

4. ERNO MEETS COST CEILING MAINLY BY MINIMIZING DELIVERABLE HARDWARE AND STRUCTURING DEVELOPMENT PROGRAM (REDUCED TESTING AND SEQUENTIAL
DEVELOPMENT WITH SMALL SCHEDULE SLIP). NO ENGINEERING MODEL OR PROTO
-
TYPE INCLUDED FOR EUROPE. MAJOR COST FORESEEN IF REQUIRED WITH ASSOCIATED GSE EVEN IF UTILIZE TEST HARDWARE.

5. MBB PROGRAM CLAIMS TO INCLUDE ALL DELIVERABLE HARDWARE AND MOST PAY

LOAD SUPPORT EQUIPMENT WITHIN 175 MAU. (STABILIZED PLATFORM, 3 SCIEENTIFIC AIRLOCKS, 20 METER BOOM, ETC.)

6. ENO LEANING MORE TOWARD USE OF SHUTTLE RESOURCES TO LOWER COST.

7. MBB BASELINE CONCEPT IS NOW QUITE MODULAR.

8. ERNO PRESENTLY PLANNING ABOUT 11 PERCENT TOTAL U. S. PROCUREMENT.

9. MITCHELL INDICATES ERNO CONCEPT WILL NOT SATISFY HEAT REJECTION REQUIREMENTS.

10. BOTH CONTRACTORS PLANNING LARGE PROCUREMENT OF U. S. DEVELOPED ECS

HARDWARE (ABOUT 75 PERCENT). IF DEPENDING ON SHUTTLE DEVELOPMENTS QUESTION OF TIMELY AVAILABILITY BECOMES CRITICAL.

11. BOTH CONTRACTORS INDICATE ALL REQUIRED FACILITIES ARE AVAILABLE IN EUROPE.

12. ENO HAS GONE TO A LOWER SYSTEM RELIABILITY 0.93 VS 0.95 WHILE MBB INDICATES IT CAN MEET 0.95 WITHIN 175 MAU. MBB HAS NOT DONE ANY TRADES TO SEE IF LOWER COST WILL RESULT IF RELIABILITY REQUIRE-
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MENT REDUCED.

13. CURRIE ESTABLISHED THAT BOTH CONTRACTORS INDICATIONS OF NO CG PROBLEMS WITH 3 PERCENT CG CURVE WERE IN ERROR. PROBLEM BEING REWORKED

14. LACK OF NASA GROUND OPERATIONS PLAN MAKES CONTRACTORS CONCEPT
DESIGNS AND ASSUMPTIONS AS TO DESIGN AND QUANTITIES OF GSE SOFT.
THE ITERATIVE PROCESS REQUIRED TO ASSURE THE COMPATIBILITY OF THE SPACELAB CONCEPT WITH THE OPERATIONS PLAN MAKES TIMELY AVAILABILITY OF SUCH A PLAN CRITICAL.
TANGUY

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